

(No Model.)

A. F. MUNRO & W. S. COLE.
HEEL NAIL.

No. 548,811.

Patented Oct. 29, 1895.

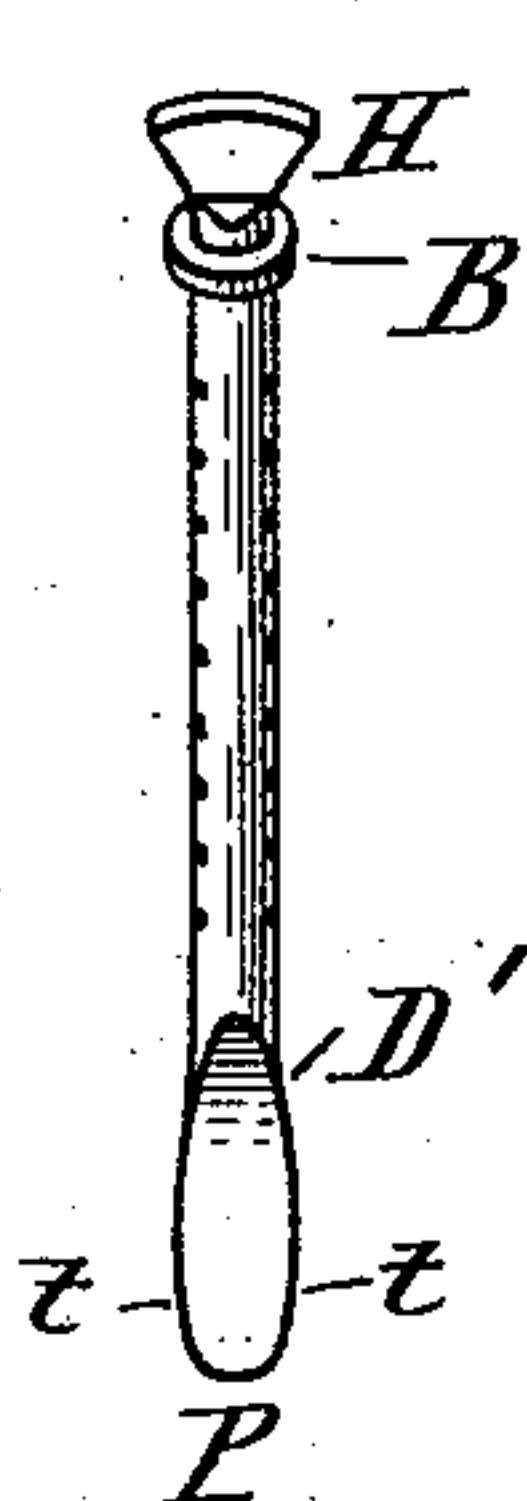


FIG. 1.

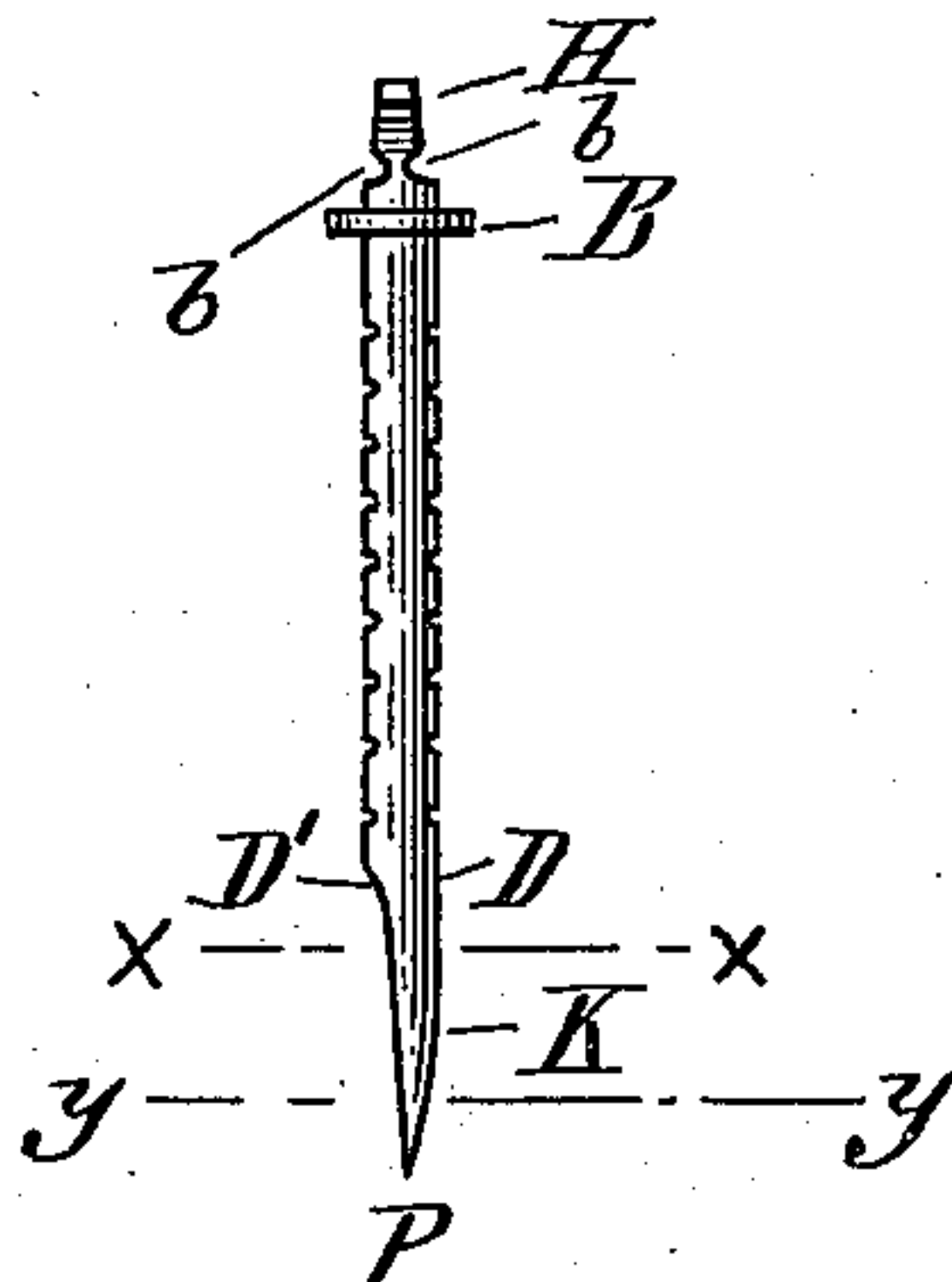


FIG. 2.



FIG. 3.



FIG. 4.

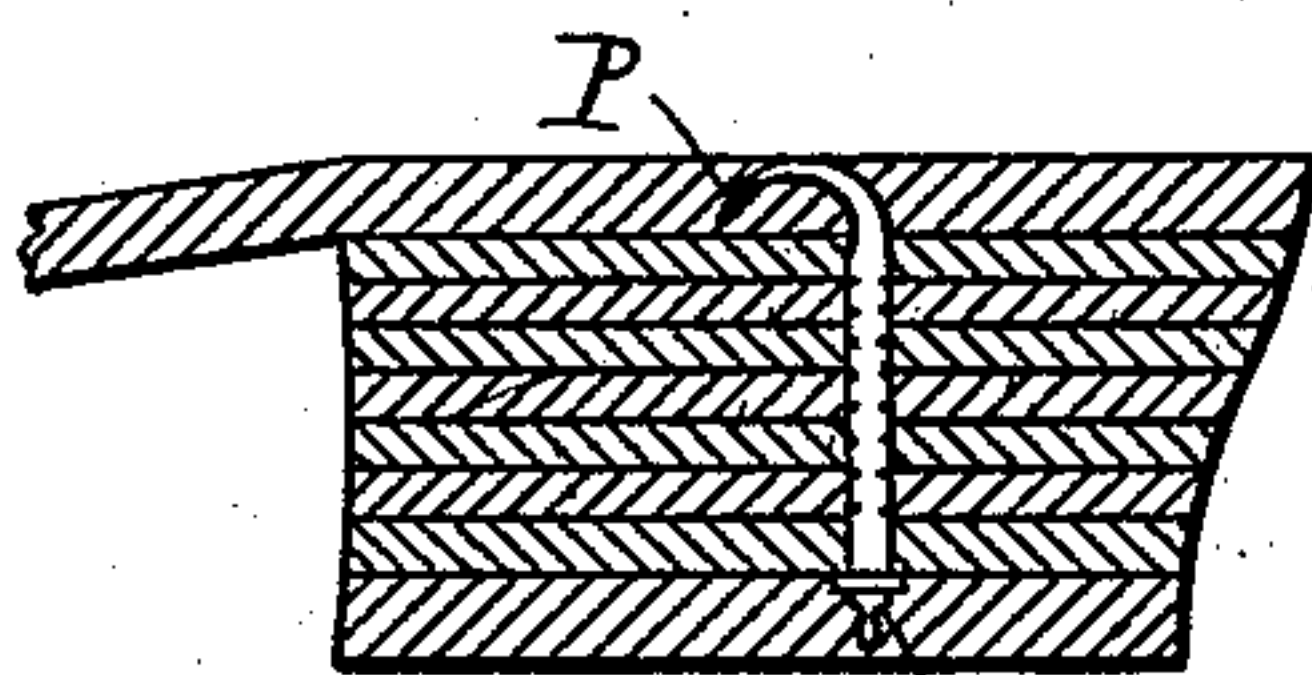


FIG. 5.

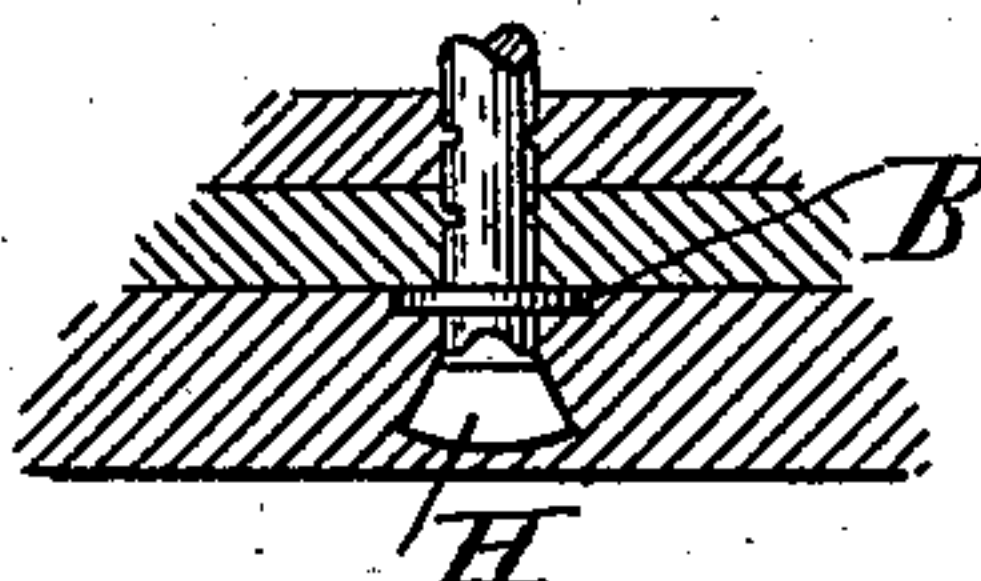


FIG. 6.

WITNESSES

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ALEXANDER F. MUNRO, OF CAMBRIDGE, AND WALDO S. COLE, OF
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HEEL-NAIL.

SPECIFICATION forming part of Letters Patent No. 548,811, dated October 29, 1895.

Application filed August 10, 1894. Serial No. 519,961. (No model.)

To all whom it may concern:

Be it known that we, ALEXANDER F. MUNRO, of Cambridge, in the county of Middlesex, and WALDO S. COLE, of Kingston, in the county of Plymouth, State of Massachusetts, have invented certain new and useful Improvements in Heel-Nails, of which the following, taken in connection with the accompanying drawings, is a specification.

Our invention relates more particularly to that class of shoe-nails that are used for nailing heels and is adapted for "blind-nailing."

The invention consists in the peculiar formation of the nail, which may be best understood by reference to the specification and drawings, the objects being to so form the head that it will firmly secure the top lift and to so form the point that it will readily penetrate and form a broad well-anchored clinch. These objects we attain by the construction shown in the accompanying drawings, in which—

Figures 1 and 2 are elevations of the nail complete. Fig. 3 is a cross-section taken on line *xx* of Fig. 2. Fig. 4 is a cross-section taken on line *yy* of Fig. 2. Fig. 5 shows in section a heel and one of our nails. Fig. 6 is a section of a portion of a heel, showing the head and a part of one of our nails.

Our nail complete is shown in Figs. 1 and 2, the head of which is made with a fillet or collar B, formed in the usual manner. Immediately above this fillet B the body is nicked in, as shown at *b b*, Fig. 2. Above the nicks *b b* the part is flattened, so as to form a comparatively broad dovetail head H, which formation, together with the nicks *b b*, will constitute a reliable "hold" for the top lift.

The point of our nail is formed with a comparatively flat inclined side D' P', Figs. 1 and 2, the other side D P of the point having an ovato-oblong surface, as indicated at K, Fig. 2, and also by the cross-sections, Figs. 3 and 4. The object of swaging the point, as described and shown, is to obtain a broad flat surface near the extreme point, as illustrated at *tt*, Fig. 1, and also to have that part strong, so that when the clinch is formed, as shown in Fig. 5,

a broad flat surface is presented to the leather as a buttress and a firm anchorage is secured, the clinched part of the nail being in itself a large cross-section instead of a mere thin easily-bent strip.

A peculiar feature of our nail is that its penetrating end is wedge-shaped, the point of the wedge being in the central longitudinal plane of the body of the nail, so that the point would have no tendency to turn and clinch were it not that the two sides of the point are different, as shown in the drawings—that is, one side consists of a plain surface, while the other is like the back of a spoon.

We claim—

1. As an improved article of manufacture, a nail having a point beveled or inclined on one side and formed with a broad, rounded extremity which terminates in the axis of the nail, and the opposite side of the point rounded or spoon backed, substantially as described.

2. As an improved article of manufacture, a nail having a point beveled or inclined on one side and formed with a broad, rounded extremity which terminates in the axis of the nail, the opposite side of the point being rounded or spoon backed and a head of dovetail form of less thickness than the diameter of the nail and with nicks below the head, substantially as described.

3. As an improved article of manufacture, a nail having a point beveled or inclined on one side and formed with a broad rounded extremity which terminates in the axis of the nail, the opposite side of the point being rounded or spoon backed and a head of dovetail form with nicks below the head and a collar below the nicks, substantially as described.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, on this 9th day of August, A. D. 1894.

ALEXANDER F. MUNRO.

WALDO S. COLE.

Witnesses:

FRANK G. PARKER,

FRANK G. HATTIE.